Manitoba

Health
Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the Month of November 2007. This report reflects the number of cases of reportable communicable diseases for which individuals in Manitoba tested positive* during the month of November 2007.

Communicable Diseases

In total, there were **365** new infections occurring across 30 communicable diseases** (excluding sexually transmitted infections and HIV) in November 2007. The observed numbers of cases were within the expected range for all of the reported communicable diseases with the exception of the following diseases:

- Cryptospordiosis – 5 cases reported, 0 – 3 cases expected
- Creutzfeld Jacob Disease – 1 case reported
- Diphtheria (toxigenic) – 2 respiratory cases reported
- Herpes with unspecified complexities – 2 cases reported, 0 – 1 cases expected
- Viral meningitis due to CoxSackie disease – 3 cases, 0 – 1 cases expected

The expected number of cases and accompanying range is based on the number of cases during October, November and December, 2002-2006.

There had been an increase of Cryptosporidium cases in the third quarter of 2007, however, now we are dropping to a more expected level. CoxSackie-related meningitis has seasonal variation, with a significant increase occurring during the second half of each calendar year. This may account for the increase noted in this month's report. Together MRSA and *Clostridium difficile* accounted for 69.0% of all non-STI/HIV related communicable diseases reported to Manitoba Health. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **710** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in November:

- 557 cases of chlamydia (lone Ct infection)
- 81 cases of gonorrhoea (lone GC infection)
- 68 GC-Ct co-infections and
- 4 cases of syphilis

Forty-two percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 45.6% all GC and Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 22.1% were from the Burntwood Health Region.

In November, 38 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Fifty-eight per cent of HCV cases this month were reported from the Winnipeg Health Region. Ten Manitobans tested positive for HIV in November. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. The cases reported in November (other than one infant) occurred in age cohorts that ranged from 25 to 59.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Tuberculosis (ICD9: 013, 011, 010 – cases and contacts of tuberculosis are managed by the Provincial Tuberculosis Control Programme located at 315 - 258 Portage Avenue
- Vancomycin resistant enterococci (VRE)

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simples (Epstein Barr, CSF only)

****Note:** All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR November 2007

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2006	2007	Expected*	Ex. Range**	2006	2007
006.9	AMEBIASIS	2		2	0-5	36	34
022	ANTHRAX				***	1	
127.0	ASCARIASIS			0	0-2		1
005.8	B. CEREUS			0	0-1		2
320.82	BAC. MENINGITIS - E.COL			0	0-0		
320.0	BAC. MENINGITIS - HAEM			0	0-1		
320.9	BAC. MENINGITIS - OTHER			0	0-1		1
320.1	BAC. MENINGITIS - PNEUM		1	1	0-2	3	4
320.3	BAC. MENINGITIS - STAPH			0	0-0		
320.2	BAC. MENINGITIS - STREP			0	0-1		
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS	2			***	5	21
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS	1		2	0-9	7	6
008.43	CAMPYLOBACTER	15	12	17	3-31	219	211
558.2	CLOSTRIDIUM DIFFICILE	84	75		***	1032	914
046.1	CREUTZFELD-JACOB DISEASE		1		***	2	1
007.8	CRYPTOSPORIDIOSIS	3	5	1	0-3	30	69
061.0	DENGUE FEVER			0	0-0	2	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		1
032	DIPHTHERIA CASES		2	0	0-0		2
123.4	DIPHYLLOBOTHRIUM SPP	1	1	1	0-2	7	16
008.0	E. COLI-VEROTOXIGENIC	2	3	5	0-18	162	44
054.3	ENCEPHALITIS			0	0-1	1	
005.9	FOOD POISONING OTHER			0	0-1	1	
007.1	GIARDIA LAMBLIA	8	4	11	3-19	125	86
041.5	H.I.B.-NON MTGS			0	0-1	1	1
041.59	HAEM. INFLUENZAE (non-B)	1			***	2	8
480.8	HANTA VIRUS			0	0-0		1
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		1
070.1	HEPATITIS A	2		1	0-4	14	7
070.3	HEPATITIS B			0	0-1	6	5
070.51	HEPATITIS C	30	38	36	24-48	305	325
054.8	HERPES-W-UNSPEC COMPL		2	0	0-1	5	3
487.1A	INFLUENZA A				***		70
487.1B	INFLUENZA B				***		1
A83.0	JAPANESE ENCEPHALITIS				***		
482.83	LEGIONELLA			0	0-1	2	1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0	2	
027.0	LISTERIA MONOCYTOGENES		1	0	0-1	6	1
088.81	LYME DISEASE			0	0-0	2	7
084	MALARIA		2	1	0-3	17	16
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-0	1	
036.82	MENINGOCOCCAL ARTHROPATH				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		
B95.6	MRSA	167	177	91	0-198	1563	1943
072.9	MUMPS			0	0-1	1	7
036.89	N.MENINGITIDIS OTHER		1	0	0-1	2	5
728.86	NECROTIZING FASCIITIS	3	1	1	0-3	18	12
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		1
033.1	PARAPERTUSSIS				***		

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2006	2007	Expected*	Ex. Range**	2006	2007
002.9	PARATYPHOID			0	0-0		
027.2	PASTEURELLA MULTOCIDA				***		
033.0	PERTUSSIS	1	1	6	0-14	11	16
038.2	PNEUM. SEPTICEMIA	7	6	8	0-16	115	82
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-0		
331.81	REYE'S SYNDROME				***		
391	RHEUMATIC FEVER			0	0-1		1
056.9	RUBELLA			0	0-0		3
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER		1	1	0-3		4
003.0	SALMONELLA	5	12	12	1-23	137	192
120	SCHISTOSOMIASIS			0	0-1	1	1
004	SHIGELLOSIS	1		1	0-4	11	13
050.9	SMALLPOX				***		
005.0	STAPHYLOCOCCAL			0	0-0		
785.5	STAPHYLOCOCCUS AUREUS	1			***	1	1
481.9	STREP PNEUMONIA - PR			0	0-1		
711.0	STREP.PNEUM.ARTHRITIS			0	0-0	1	
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	1	3
127.2	STRONGYLOIDES		1	0	0-1	5	17
037	TETANUS			0	0-0	1	
130.9	TOXOPLASMOSIS		1	1	0-4	1	2
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI			0	0-0		2
013	TUBERCULOSIS - NON-RESP.		1	2	0-4	18	17
011	TUBERCULOSIS - RESP.	3	5	6	0-13	64	69
010	TUBERCULOSIS-PRIM.		2	1	0-3	14	5
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0		
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	2	1		***	30	44
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
047.0	VIRAL MENINGITIS-COXSACK		3	0	0-1	10	12
047.1	VIRAL MENINGITIS-ECHO			1	0-5	10	3
047.8	VIRAL MENINGITIS-ENTERO		2		***	5	3
054.72	VIRAL MENINGITIS-H SIMP			0	0-1		
047.9	VIRAL MENINGITIS-UNSPEC			0	0-1		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***	1	9
198	WNV NEUROLOGICAL SYNDROME				***	17	71
197	WNV NON-NEUROLOGICAL SYND				***	33	497
066.3	WNV UNCLASSIFIED		1		***		7
008.44	YERSINIA ENTEROCOLITICA		2	1	0-2	14	9
		341	365			4082	4914

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR November 2007

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
320.1	BAC. MENINGITIS - PNEUM																				1								1
008.43	CAMPYLOBACTER		1	1						1	1				1	1			2	1	1				2			12
558.2	CLOSTRIDIUM DIFFICILE										1			1	1	1		3	2	4	5	6	10	11	2	20	8		75
046.1	CREUTZFELD JACOB DISEASE																						1						1
007.8	CRYPTOSPORIDIOSIS										2					2	1												5
032	DIPH. CASES							1										1											2
123.4	DIPHYLLOBOTHRIUM															1													1
008.0	E. COLI 0157												1						1		1								3
007.1	GIARDIA LAMBLIA			2												1							1						4
070.51	HEPATITIS C				1		1						1	1	3	4	3	2	12	2	4	1	1					2	38
054.8	HERPES-W-UNSPEC COMPL																					1			1				2
027.0	LISTERIA MONOCYTOGENES																										1		1
084	MALARIA																		1		1								2
B95.6	MRSA	2	8	3	4	7	6	7	6	7	7	6	4	3	4	13	10	6	7	6	8	8	15	8	2	5	15		177
728.86	NECROTIZING FASCIITIS																		1										1
036.89	NEISSERIA MGTS(0ther)											1																	1
033.0	PERTUSSIS	1																											1
003.0	SALMONELLA			2			1					1			1		1	1	1	2				1	1				12
041.2	STREP.PNEUM.OTHER																					1							1
038.2	STREP.PNEUMOCOCCAL SEPTIC					1		1											2		1				1				6
127.2	STRONGYLOIDIASIS																						1						1
130.9	TOXOPLASMOSIS															1													1
013	TUBERCULOSIS - NON-RESP.																				1								1
011	TUBERCULOSIS - RESP.									1				1			1		2										5
010	TUBERCULOSIS-PRIM.				1				1																				2
B96.8	VANCOMYCIN RES. ENTER.																				1								1

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
047.0	VIRAL MENINGITIS-COXSACK	1					1															1							3
047.8	VIRAL MENINGITIS-ENTERO	2																											2
196	WNV Asymptomatic Infectio												1		1			1	1		3	1	1						9
198	WNV Neurological Syndrome			1							4			2	3	3	1	5	4	5	6	5	14	6	6	2	4		71
197	WNV Non-Neurological Synd							2	5	8	13	6	9	17	12	29	36	55	74	56	54	27	46	14	21	6	7		497
066.3	WNV Unclassified									1							1	1	2		2								7
008.44	YERSINIA ENTEROCOLITICA											1					1												2
		6	9	9	6	8	9	11	12	18	28	15	16	25	26	56	55	75	112	76	89	51	90	40	34	35	35		948

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR November 2007

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
320.1	BAC. MENINGITIS - PNEUM	1																					1
008.43	CAMPYLOBACTER	4	1				3				2		2										12
558.2	CLOSTRIDIUM DIFFICILE	49	1		5		5		4		3		1		5		1		1				75
046.1	CREUTZFELD JACOB DISEAS E								1														1
007.8	CRYPTOSPORIDIOSIS		1				2	1					1										5
032	DIPH. CASES																	2					2
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157	3																					3
007.1	GIARDIA LAMBLIA	2								1			1										4
070.51	HEPATITIS C	22	2		1			3	1		2		1		1		4		1				38
054.8	HERPES-W-UNSPEC COMPL	1							1														2
027.0	LISTERIA MONOCYTOGENES	1																					1
084	MALARIA	1															1						2
B95.6	MRSA	70	3		1		2	1	6			1	4		4	6	6	58	15				177
728.86	NECROTIZING FASCIITIS																				1		1
036.89	NEISSERIA MGTS(0ther)						1																1
033.0	PERTUSSIS	1																					1
003.0	SALMONELLA	7									1				1		2		1				12
041.2	STREP.PNEUM.OTHER																1						1
038.2	STREP.PNEUMOCOCCAL SE PTIC	3					1				1		1										6
127.2	STRONGYLOIDIASIS	1																					1
130.9	TOXOPLASMOSIS												1										1
013	TUBERCULOSIS - NON-RESP.				1																		1
011	TUBERCULOSIS - RESP.	2														1		2					5
010	TUBERCULOSIS-PRIM.									1								1					2
B96.8	VANCOMYCIN RES. ENTER.														1								1
047.0	VIRAL MENINGITIS-COXSACK	1	1						1														3
047.8	VIRAL MENINGITIS-ENTERO	2																					2
196	WNV Asymptomatic Infectio	1			1		1		1		2		3										9
198	WNV Neurological Syndrome	27	6		3		2		5		8		17		3								71

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
197	WNV Non-Neurological Synd	100	70		19		25		37		95		138		13								497
066.3	WNV Unclassified	3	1				1				2												7
008.44	YERSINIA ENTEROCOLITICA	2																					2
		305	**86**		**31**		**43**	**5**	**57**	**2**	**116**	**1**	**170**		**28**	**7**	**15**	**63**	**18**		**1**		**948**
Missing Investigation Forms (Jan.1 to end of October)		156	12	2	3		13	2	17	1	8		13		7		7	6	3			1	251

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

STD Infection Summary Report - November 2007

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	**2006**	**2007**	**2006**	**2007**
All Chlamydia Infections	374	625	3945	5113
All Gonorrhea Infections (including PRNG)	126	149	1469	1389
All Syphilis Infections	4	4	47	42
Gonorrhea & Chlamydia Co-infections	40	68	468	563
Penicillin Resistant Gonorrhea Infections (PRNG)				
Suspect PRNG				
HIV	5	10	74	79

Total Number of STD Cases by Age and Gender - November 2007

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
Chlamydia Only Cases							7		138	39	105	78	59	38	39	31	7	6	5	4	1							557
Gonorrhea Only Cases							4		13	5	17	13	9	7	3	3	4	2	1									81
Syphilis Only Cases															2	1						1						4
GC and CT Cases									13	9	11	6	12	6	1	6		2				2						68
							11		164	53	133	97	80	51	45	41	11	10	6	4	1	3						710
HIV	1													2	3	1		2		1								10

Regional STD Distribution - November 2007

Disease/Infection	**Winnipeg**	**Brandon**	**N.Eastman**		**S.Eastman**		**Interlake**		**Central**		**Assiniboine**		**Parkland**		**Norman**		**Burntwood**		**Churchill**	**OOP**	**Missing**	**TOTAL**
Case Referred to:*			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	293	31	9	16		11	5	22	1	30	1	20	7	10	6	35	99	22	2	4	1	625
All Gonorrhea Infections	60	5	2				3	1	1	5	1	2	2	5	1	8	38	12		3		149
All Syphilis Infections	4																					4
GC and CT Infections	20	2	1				1	1		3	1	2	1	2	1	8	20	5				68
Missing Investigation Forms (Jan.1 to end of October)	234	43	6	17		11	6	28	1	24		34	8	22	2	32	72	29		1	1	571

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction